SEQUENCE LISTING

<110> Somerville, Chris R Scheible, Wolf

<120> MODIFIED CELLULOSE SYNTHASE GENE FROM ARABDOPSIS THALIANA CONFERS HERBICIDE RESISTANCE TO PLANTS

<130> S-103,779

<150> 60/159,369 (Provisional)

<151> 1999-10-14

<150> 09/686,234

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<170> PatentIn version 3.2

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Pro Cys Tyr Glu Tyr Glu Arg Lys Asp Gly Asn Gln Ser Cys Pro Gln 50 55 60
Cys Lys Thr Arg Tyr Lys Arg Leu Lys Gly Ser Pro Ala Ile Pro Gly 65 70 75 80
Asp Lys Asp Glu Asp Gly Leu Ala Asp Glu Gly Thr Val Glu Phe Asn 85 90 95
Tyr Pro Gln Lys Glu Lys Ile Ser Glu Arg Met Leu Gly Trp His Leu 100 105 110
Thr Arg Gly Lys Gly Glu Glu Met Gly Glu Pro Gln Tyr Asp Lys Glu 115 120 125
Val Ser His Asn His Leu Pro Arg Leu Thr Ser Arg Gln Asp Thr Ser 130 135 140
Gly Glu Phe Ser Ala Ala Ser Pro Glu Arg Leu Ser Val Ser Ser Thr 145 150 155 160
Ile Ala Gly Gly Lys Arg Leu Pro Tyr Ser Ser Asp Val Asn Gln Ser 165 170 175
Pro Asn Arg Arg Ile Val Asp Pro Val Gly Leu Gly Asn Val Ala Trp 180 185 190
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Pro Tyr Arg Met Val Ile Met Leu Arg Leu Val Ile Leu Cys Leu Phe 260 265 270
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Ala Val Asp Ile Phe Val Ser Thr Val Asp Pro Leu Lys Glu Pro Pro 340 345 350
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Val Asp Lys Val Ser Cys Tyr Val Ser Asp Asp Gly Ala Ala Met Leu 370 375 380
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Arg Ile Asn Ala Leu Val Ser Lys Ala Leu Lys Cys Pro Glu Glu Gly 450 455 460
Trp Val Met Gln Asp Gly Thr Pro Trp Pro Gly Asn Asn Thr Arg Asp 465 470 475 480
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Ala Glu Gly Asn Glu Leu Pro Arg Leu Val Tyr Val Ser Arg Glu Lys 500 505 510
Arg Pro Gly Phe Gln His His Lys Lys Ala Gly Ala Met Asn Ala Leu 515 520 525
Val Arg Val Ser Ala Val Leu Thr Asn Gly Pro Phe Ile Leu Asn Leu 530 535 540
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Phe Pro Gln Arg Phe Asp Gly Ile Asp Lys Asn Asp Arg Tyr Ala Asn 580 585 .590

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Lys Leu Pro Ala Phe Lys Gly Ser Ala Pro Ile Asn Leu Ser Asp Arg 785 790 795 800
Leu Asn Gln Val Leu Arg Trp Ala Leu Gly Ser Val Glu Ile Leu Phe 805 810 815
Ser Arg His Cys Pro Ile Trp Tyr Gly Tyr Asn Gly Arg Leu Lys Phe 820 825 830
Leu Glu Arg Phe Ala Tyr Val Asn Thr Thr Ile Tyr Pro Ile Thr Ser 835 840 845
Ile Pro Leu Leu Met Tyr Cys Thr Leu Pro Ala Val Cys Leu Phe Thr 850 855 860
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Val Ile Gly Gly Val Ser Ala His Leu Phe Ala Val Phe Gln Gly Ile 915 920 925
Leu Lys Val Leu Ala Gly Ile Asp Thr Asn Phe Thr Val Thr Ser Lys 930 935 940
Ala Ser Asp Glu Asp Gly Asp Phe Ala Glu Leu Tyr Leu Phe Lys Trp 945 950 955 960

Thr Thr Leu Leu Ile Pro Pro Thr Thr Leu Leu Ile Val Asn Leu Val 965 970 975

Gly Val Val Ala Gly Val Ser Tyr Ala Ile Asn Ser Gly Tyr Gln Ser 980 985 990

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His Leu Tyr Pro Phe Leu Lys Gly Leu Met Gly Arg Gln Asn Arg 1010 1015 1020

Thr Pro Thr Ile Val Val Val Trp Ser Val Leu Leu Ala Ser Ile 1025 1030 1035

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